



AUDEN COMMUNICATIONS&MULTIMEDIA
TECHNO (KUNSHAN) CO.LTD

Product Specification

Customer/Project	GD506 DIV	Frequency Band	WCDMA Band: 2/4/5 LTE Band: 2/4/5/12/13/25/26/66		
Auden P/N	AUKE3483	Version	R:A		
Design	Jiahao zhu	Quality		Confirm by	
Mechanical design	Dong wang	PM			
Date	202209-05				
Customer Project /SCT P/N	Customer Project: GD506-DIV				
	Type specification:				
	SCT P/N: 140050100157				
Customer Confirmation					
Auden					
Research and Development project Customer Satisfaction Survey					
RF	☐ Satisfactory	☐ Basic satisfaction	☐ Not satisfied		
ME	☐ Satisfactory	☐ Basic satisfaction	☐ Not satisfied		
PM	☐ Satisfactory	☐ Basic satisfaction	☐ Not satisfied		
Recommendation note:					

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1、Product Specifications

Frequency Band:WCDMA Band: 2/4/5 LTE Band: 2/4/5/12/13/25/26/66。

2、Electrical Performance

- 2.1 Gain Test
- 2.1.1 Test Results

6.8nH condition

Efficiency and Gain								
Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dBi		Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dBi
700	-11.18	7.62	-8.86		1950	-5.79	26.36	-1.24
710	-10.23	9.48	-7.89		1970	-5.4	28.84	-1.52
720	-9.92	10.19	-7.95		1990	-5.21	30.13	-1.68
730	-9.08	12.36	-7.03		2010	-4.8	33.11	-1.33
740	-8.65	13.65	-6.84		2030	-4.96	31.92	-1.53
750	-8.3	14.79	-6.15		2050	-4.65	34.28	-1
760	-8.67	13.58	-6.74		2070	-4.9	32.36	-1.23
770	-8.54	14	-6.4		2090	-4.63	34.43	-0.99
780	-8.48	14.19	-5.99		2110	-4.82	32.96	-1.38
790	-8.23	15.03	-5.86		2130	-4.84	32.81	-1.54
800	-8.8	13.18	-7.26		2150	-4.92	32.21	-1.46
810	-8.62	13.74	-7.15		2170	-4.99	31.7	-1.48
820	-8.85	13.03	-7.15		2190	-4.81	33.04	-1.14
830	-9.45	11.35	-7.43		2210	-4.75	33.5	-1.4
840	-10.58	8.75	-9.63		2230	-4.52	35.32	-1.63
850	-12.12	6.14	-11.04		2250	-4.46	35.81	-1.8
860	-14.78	3.33	-12.74		2270	-4.46	35.81	-1.61
870	-16.63	2.17	-12.73		2290	-4.34	36.81	-1.41
880	-14.91	3.23	-11.6		2310	-4.23	37.76	-1.48
890	-12.53	5.58	-9.53		2330	-3.75	42.17	-1.15
900	-10.93	8.07	-7.97		2350	-3.67	42.95	-0.99
910	-10.17	9.62	-6.87		2370	-3.36	46.13	-0.53
920	-9.81	10.45	-6.26		2390	-3.3	46.77	-0.37
930	-9.33	11.67	-5.47		2410	-3.2	47.86	-0.26
940	-8.92	12.82	-4.39		2430	-5.96	25.35	-1.92
950	-8.66	13.61	-3.56		2450	-3.75	42.17	0.25
960	-8.6	13.8	-3.36		2470	-3.46	45.08	0.87
1710	-10.04	9.91	-5.25		2490	-3.64	43.25	0.13
1730	-9.31	11.72	-4.88		2510	-3.85	41.21	-0.06
1750	-9.06	12.42	-5.06		2530	-3.98	39.99	-1
1770	-8.4	14.45	-4.44		2550	-3.86	41.11	-0.11
1790	-8.21	15.1	-4.4		2570	-3.72	42.46	-0.11
1810	-7.61	17.34	-3.19		2590	-3.68	42.85	0.25
1830	-7.49	17.82	-2.91		2610	-3.52	44.46	0.07
1850	-7.07	19.63	-1.91	2630	-3.54	44.26	-0.03	
1870	-6.91	20.37	-1.92	2650	-3.52	44.46	-0.28	
1890	-6.69	21.43	-1.38	2670	-3.47	44.98	-0.17	
1910	-6.42	22.8	-1.44	2690	-3.71	42.56	-0.48	
1930	-6.11	24.49	-1.27					

0Ω condition

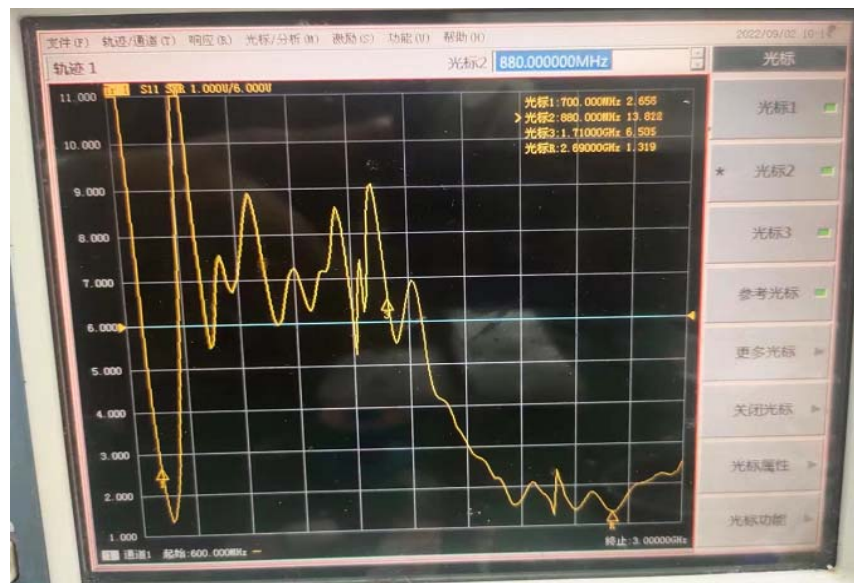
Efficiency and Gain								
Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dBi		Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dBi
700	-21.15	0.77	-18.23		2010	-4.55	35.08	-0.85
710	-20.39	0.91	-17.53		2030	-4.7	33.88	-0.67
720	-19.79	1.05	-17.34		2050	-4.4	36.31	0.07
730	-18.73	1.34	-16.07		2070	-4.66	34.2	-0.06
740	-17.53	1.77	-15.02		2090	-4.43	36.06	0.26
750	-16.55	2.21	-13.83		2110	-4.65	34.28	-0.1
760	-15.77	2.65	-13.32		2130	-4.69	33.96	-0.32
770	-14.92	3.22	-12.6		2150	-4.84	32.81	-0.8
780	-13.84	4.13	-11.44		2170	-5.02	31.48	-1.42
790	-12.78	5.27	-10.45		2190	-4.91	32.28	-1.5
800	-12.32	5.86	-10.72		2210	-4.79	33.19	-1.72
810	-11.26	7.48	-9.75		2230	-4.45	35.89	-1.26
820	-10.56	8.79	-8.71		2250	-4.24	37.67	-1.37
830	-10.17	9.62	-7.98		2270	-4.14	38.55	-1.39
840	-10.34	9.25	-9.27		2290	-3.98	39.99	-1.54
850	-10.64	8.63	-9.64		2310	-3.99	39.9	-1.91
860	-11.88	6.49	-9.72		2330	-3.59	43.75	-1.02
870	-11.19	7.6	-7.33		2350	-3.56	44.06	-0.57
880	-9.45	11.35	-6.52		2370	-3.28	46.99	-0.15
1710	-11.67	6.81	-6.71		2390	-3.26	47.21	0
1730	-10.88	8.17	-6.23		2410	-3.23	47.53	-0.18
1750	-10.56	8.79	-6.19		2430	-5.78	26.42	-1.52
1770	-9.69	10.74	-5.39		2450	-3.71	42.56	0.48
1790	-9.17	12.11	-4.78		2470	-3.56	44.06	0.91
1810	-8.24	15	-3.2		2490	-3.69	42.76	0.24
1830	-7.88	16.29	-2.75		2510	-3.85	41.21	0.32
1850	-7.31	18.58	-1.65		2530	-3.88	40.93	-0.24
1870	-7.06	19.68	-1.73		2550	-3.75	42.17	0.28
1890	-6.7	21.38	-1.12		2570	-3.65	43.15	0.39
1910	-6.31	23.39	-1.1		2590	-3.64	43.25	0.62
1930	-5.87	25.88	-0.8		2610	-3.47	44.98	0.87
1950	-5.47	28.38	-0.65		2630	-3.49	44.77	0.96
1970	-5.08	31.05	-0.84		2650	-3.52	44.46	1.17
1990	-4.91	32.28	-1.44		2670	-3.5	44.67	1.23
					2690	-3.8	41.69	0.93

2. 1. 2 OTA

B2	650	-89.54
	900	-89.32
	1150	-92.62
B4	2000	-92.38
	2175	-92.57
	2350	-91.93
B5	2000	-92.38
	2175	-92.57
	2350	-91.93
B12	5060	-85.85
	5095	-85.35
	5130	-86.35
B13		
	5230	-83.94
B25	8090	-89.72
	8365	-89.15
	8640	-92.37
B26	8740	-93.55
	8865	-94.72
	8990	-94.97
B66	66486	-92.43
	66786	-91.84
	67086	-92.74

3、Annex

3.1 VSWR



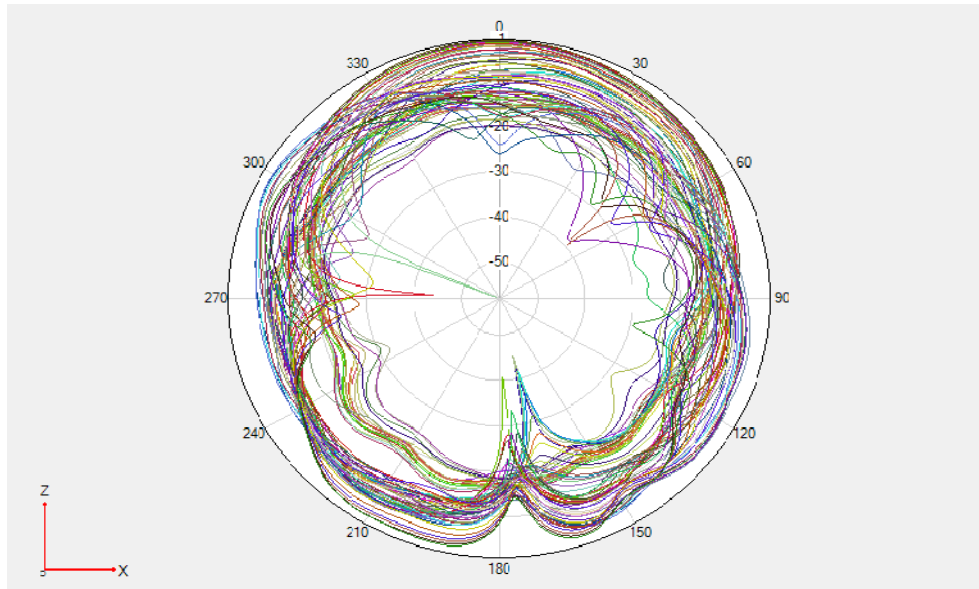
(6.8nH condition) GD506 DIV VSWR



(0Ω condition) GD506 DIV VSWR

3.2 Antenna Pattern

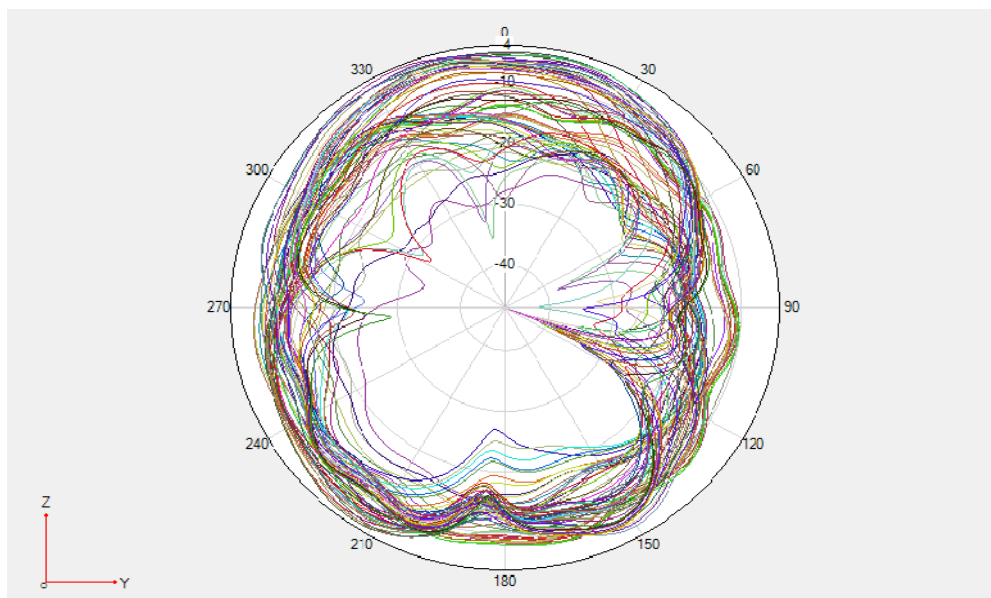
6.8nH condition



700-880HMZ

1710-2690HMZ

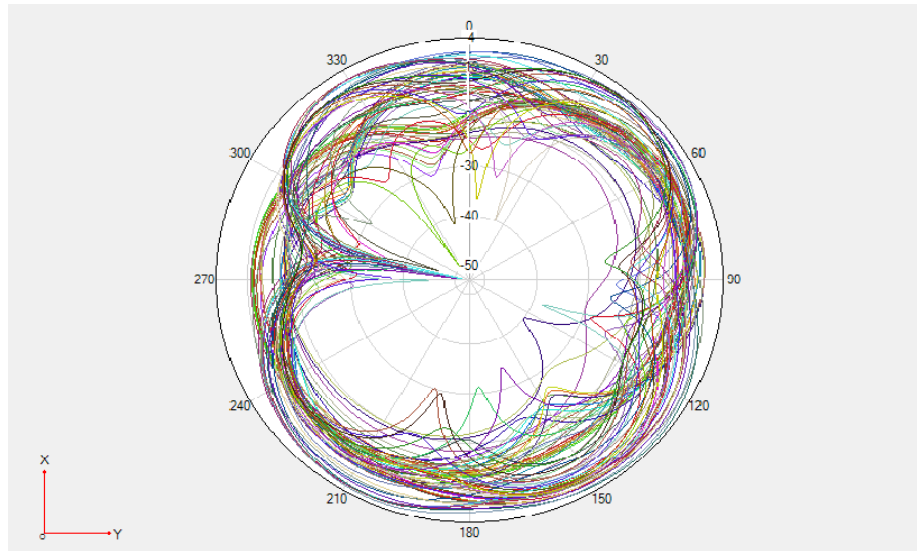
Phi 0°



700-880HMZ

1710-2690HMZ

Phi 90°

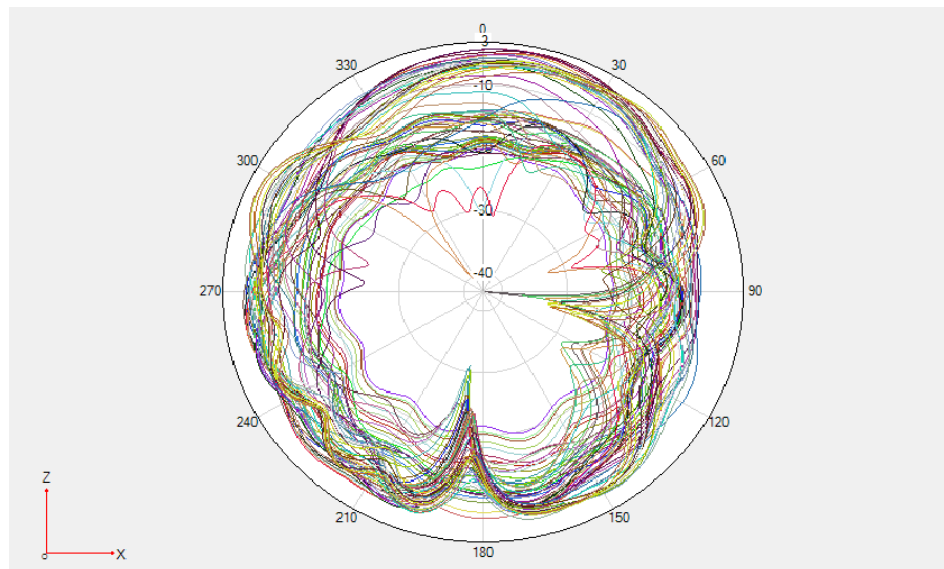


700-880HMZ

1710-2690HMZ

Theta 90°

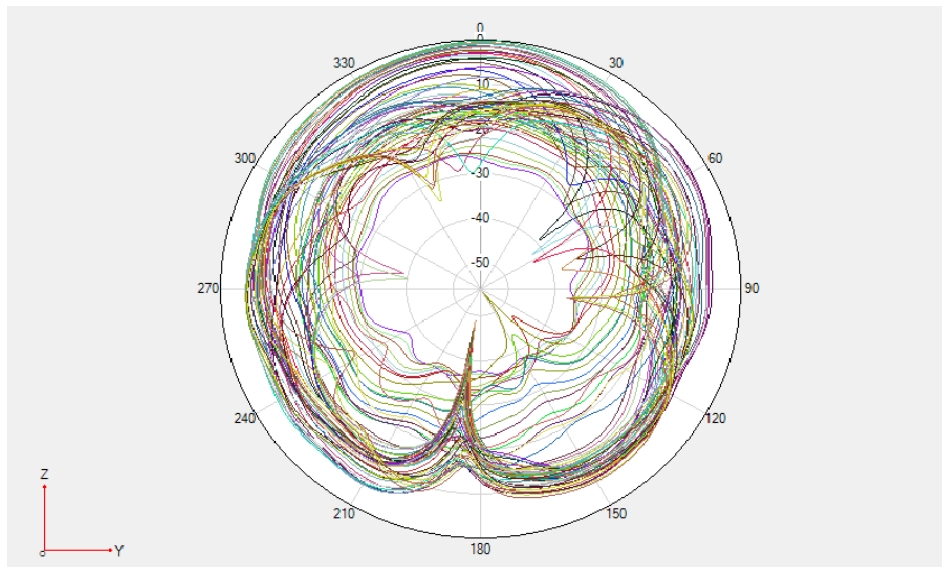
0Ω condition



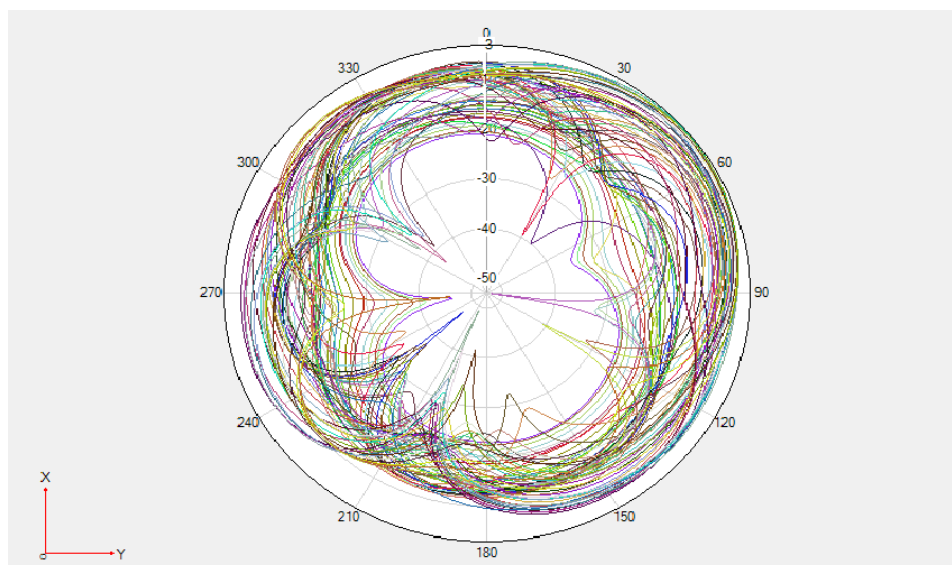
700-880HMZ

1710-2690HMZ

Phi 0°



700-880HMZ 1710-2690HMZ Phi 90°



700-880HMZ 1710-2690HMZ Theta90°

4、 Antenna structure diagram

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